



Safety Data Sheet according to GB/T 16483-2008

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HYSOL MG 15F-35A

MSDS-No. : 412554

Revision: 18.11.2015

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1. Identification of the substance/preparation and of the company/undertaking

Product name: HYSOL MG 15F-35A

Intended use: Molding Compound

Company name:

Hysol Huawei Electronics Co.,Ltd
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Revision date: 18.11.2015

Emergency information: Emergency telephone: +86 18795502427 (24h).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target organ</u>
Carcinogenicity	Category 2		
Serious eye irritation	Category 2A	Eye contact	
Specific target organ toxicity - single exposure	Category 3		Lungs

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:



Signal word:

Warning

Hazard statement:	H351 Suspected of causing cancer. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Prevention:	P260 Do not breathe dust. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.
Response:	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use CO ₂ , dry chemical, or foam for extinction.
Storage:	P403+P235 Store in a well-ventilated place. Keep cool. P410 Protect from sunlight.
Disposal:	P501 Dispose of contents/container according to SDS section 13.

3. Composition / information on ingredients

General description: Mixture
Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Silicon dioxide 60676-86-0	70 -< 80%	
Epoxy Resin Trade Secrets	10 -< 20%	
Benzophenone-3,3':4,4'-tetracarboxylic dianhydride 2421-28-5	1 -< 10%	Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H335
Antimony trioxide 1309-64-4	1 -< 10%	Carcinogenicity 2 H351
Carbon black 1333-86-4	0.1 -< 1 %	

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

Skin contact:	Rinse with running water and soap. Seek medical advice.
Eye contact:	Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remains (intensive smarting, sensivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.

Ingestion: Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

5. Fire fighting measures

Hazardous characteristics: Non combustible - Danger of decomposition if exposed to heat.

Hazardous combustion products: Oxides of carbon.
Irritating organic vapours.

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Notice and measures for firing fighting: If mixed with air in sufficient amounts and proportions, organic dusts can form flammable or explosive dust/air mixtures.
Do not breathe combustion gases.
Wear self-contained breathing apparatus.

6. Accidental release measures

Emergency measures: Keep away from sources of ignition and naked flames.
Ensure adequate ventilation.
Do not let product enter drains.
Depending on workplace dust concentration, wear dust filter mask with particle filter P1, P2 or P3.
Avoid dust formation.

Clean-up methods: Remove all sources of ignition.
Ensure adequate ventilation.
Remove mechanically.
Sweep up spilled material. Avoid creating dust.

7. Handling and storage

Notice for handling: Avoid naked flames, sparking and sources of ignition.
Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges.
Avoid dust formation.
Use only with adequate ventilation.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

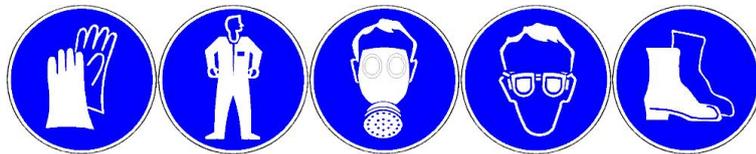
Notice for storage: Store in a cool, dry, well ventilated area.
Keep away from heat and direct sunlight.

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Silicon dioxide	5 mg/m ³ TWA	6 mg/m ³ TWA		none
Benzophenone-3,3':4,4'-tetracarboxylic dianhydride	none	none		none
Antimony trioxide	0.5 mg/m ³ TWA	0.5 mg/m ³ TWA		none
Carbon black	4 mg/m ³ PC-TWA	3 mg/m ³ TWA		none

Engineering controls: Ensure adequate ventilation, especially in confined areas.
Extraction is necessary to remove fumes evolved during reflow.
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Respiratory protection:	Do not inhale dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Eye protection:	Protective goggles Avoid eye contact.
Body protection:	Wear suitable protective clothing. Protective clothing that covers arms and legs.
Hand protection:	Avoid skin-contact. Wear refractive gloves while working with the hot melt.
Other protection:	The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008). Do not eat, drink or smoke while working. Wash hands before work breaks and after finishing work.



Pictograms for recommended PPE:

9. Physical and chemical properties

Physical state:	solid	Appearance:	Black Solid
pH:	Not applicable	Melting point:	Not applicable
Boiling point:	Not available.	Density:	1.80 - 2.10 g/cm ³
Flash point:	Not applicable	Ignition temperature:	> 500 °C (> 932 °F)
Solubility in water	Not available.	Viscosity:	Not applicable

10. Stability and reactivity

Conditions to avoid:	Stable under normal conditions of storage and use. Danger of dust explosions. Take measures to prevent the build-up of electrostatic charges. Danger of decomposition if exposed to heat.
Incompatible products:	Reacts with strong oxidants. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Decomposition products:	Hydrocarbons Oxides of carbon. Irritating organic fragments.

11. Toxicological information**General toxicological information:**

No experimental toxicological data on the preparation as such is available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Silicon dioxide 60676-86-0	LD50 LD50	> 5,000 mg/kg > 5,000 mg/kg	oral dermal oral		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity)
Antimony trioxide 1309-64-4	LD50	> 20,000 mg/kg	oral		rat	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silicon dioxide 60676-86-0	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silicon dioxide 60676-86-0	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Silicon dioxide 60676-86-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Silicon dioxide 60676-86-0	NOAEL=< 0.046 mg/l	inhalation	14 days 6 hours/day, 5 days/week	rat	

12. Ecological information**Ecotoxicity:**

Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Silicon dioxide 60676-86-	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silicon dioxide 60676-86-	EC50	> 10,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Silicon dioxide 60676-86-	NOEC	60 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	ISO 8692 (Water Quality)
Silicon dioxide 60676-86-	EC50	440 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	ISO 8692 (Water Quality)
Silicon dioxide 60676-86-	EC0	10,000 mg/l	Bacteria	30 min		
Antimony trioxide 1309-64-4	LC50	> 1,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Antimony trioxide 1309-64-4	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Antimony trioxide 1309-64-4	EC50	67 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Antimony trioxide 1309-64-4	EC10	> 3.5 mg/l	Bacteria	7 h		

13. Disposal considerations

Product disposal: Not list in National Hazardous Waste Catalogue, dispose of as normal chemical waste. Dispose of in accordance with local and national regulations. Waste incineration with the approval of the responsible local authority.

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information**General information:**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

Notice For Transportation:

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 10th meeting of 12nd NPC standing committee on 31st Aug 2014).

“Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 24th meeting of 11st NPC standing committee on 31st Dec 2011).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 144th State Council executive meeting on 16th February 2011).

“Regulations on License to Work Safety” (Adopted by 54th State Council executive meeting on 29th July 2014).

16. Other information

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Issue department: SHE Department

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Others: **The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:**

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.